

# Figure #1

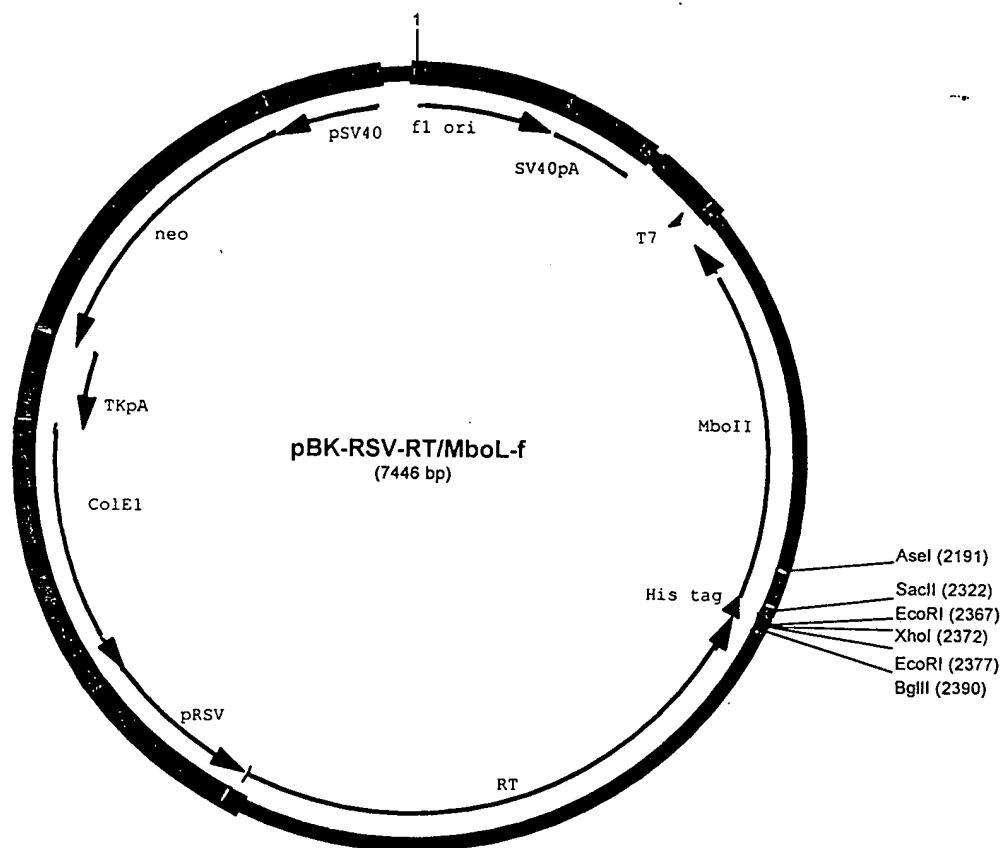


Figure 1: Structure of the pssDNA-Express A plasmid. The reverse transcriptase and *Mbo* II genes are expressed in a single polypeptide for which the message is transcribed from the RSV promoter. The reverse transcriptase and *Mbo* II domains are separated by a histidine- and proline-rich linker.

# Figure #2

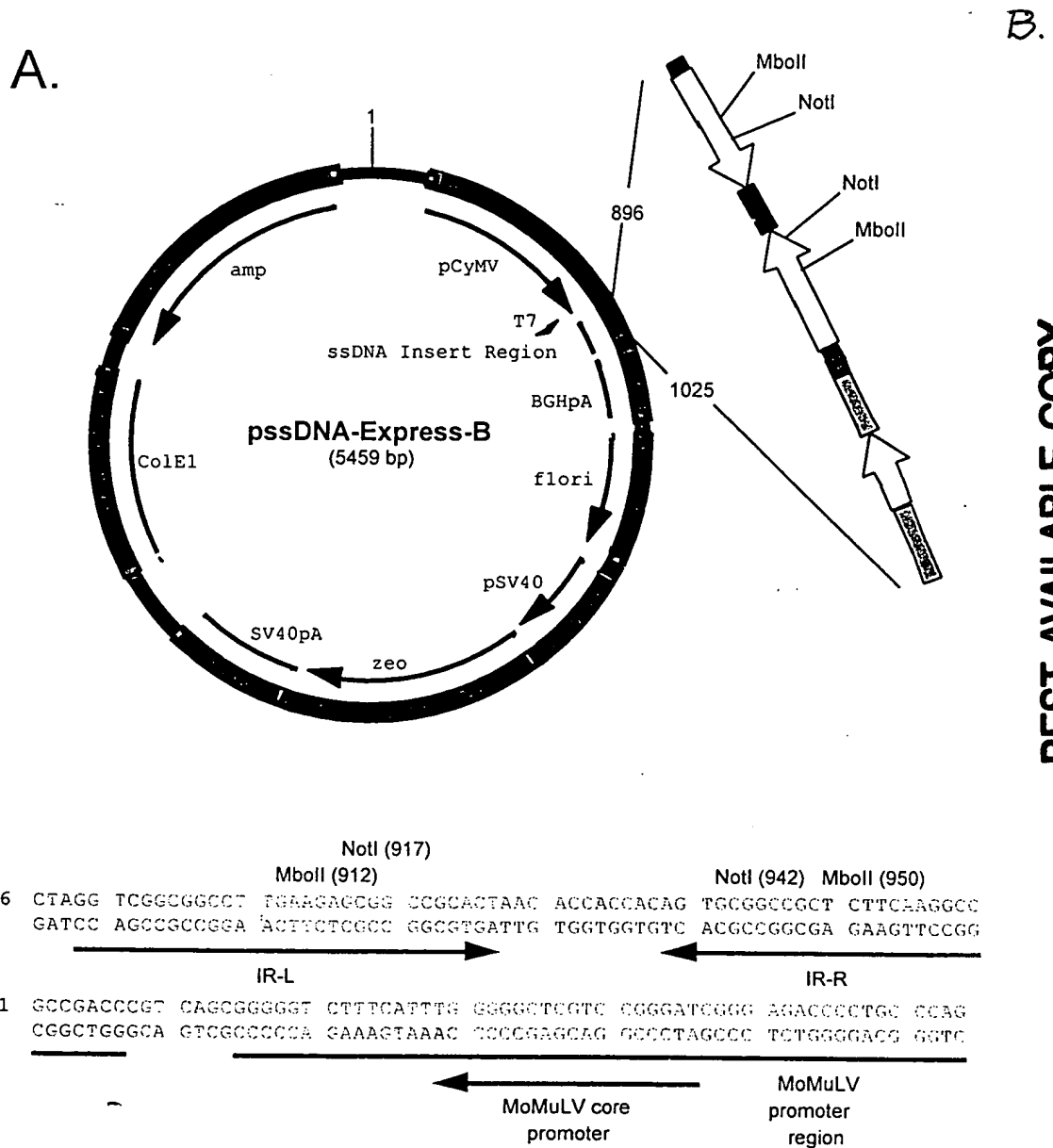
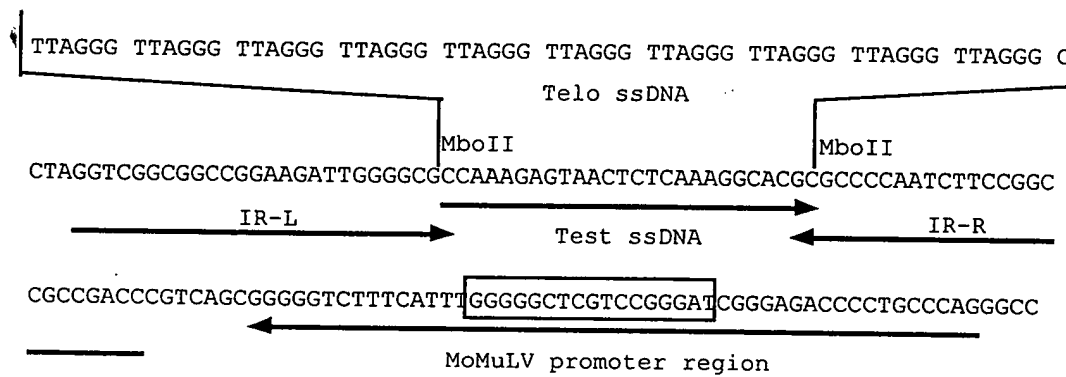


Figure 2: Structure of the pssDNA-Express-B plasmid. A. Plasmid map with enlargement showing arrangement of insert features: inverted complementary repeats (open arrows); MoMuLV promoter region (hatched) and MoMuLV core promoter (stippled arrow). B. Sequence of the insert region.

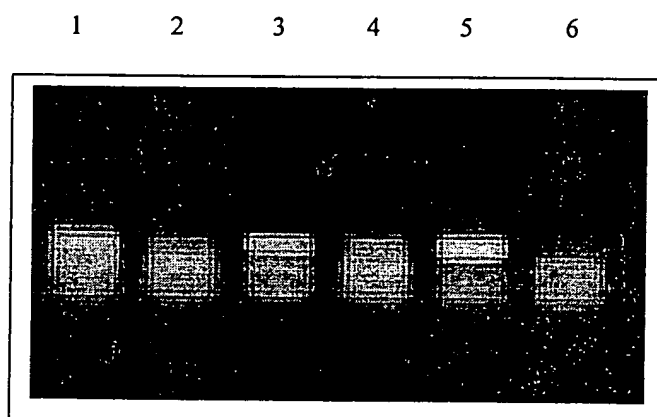
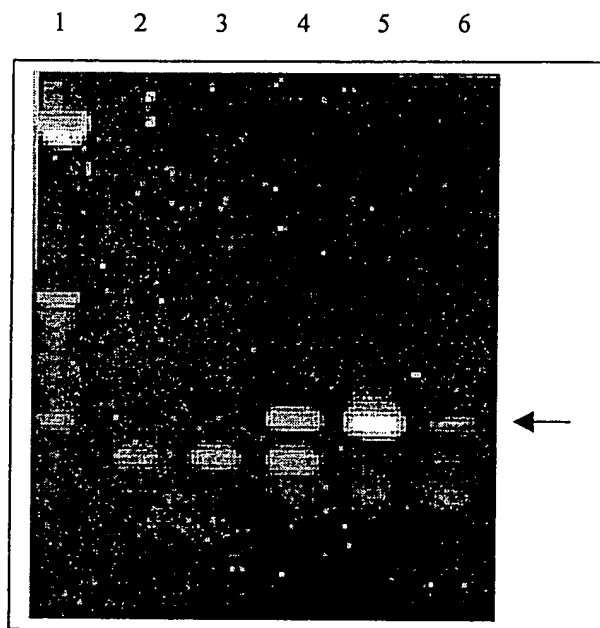
BEST AVAILABLE COPY

Figure #3



0030709.094500

# Figure #4

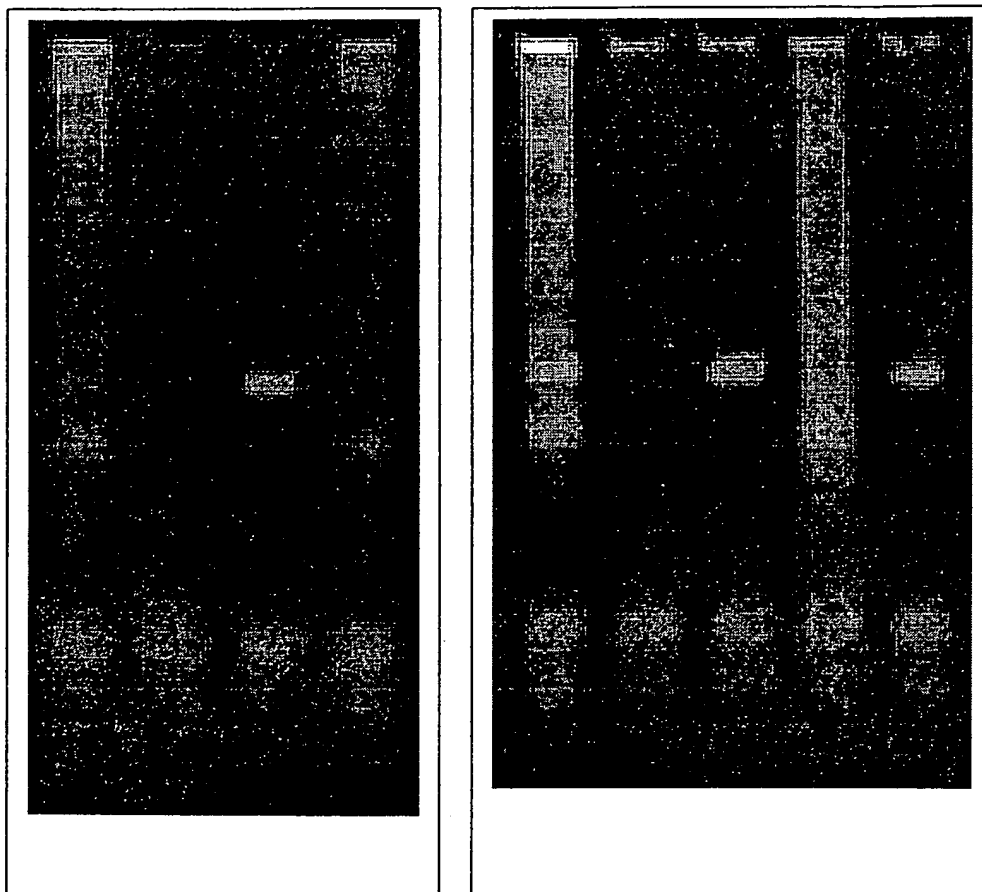


**Figure 4: Reverse transcriptase assays on RNA/ssDNA extracts from transformed HeLa cell lines. A. Transient transformations. Lanes: (1) size markers; (2) untransformed HeLa cells; (3), HeLa cells transformed with the vector pcDNA3.1Zeo<sup>+</sup>; (4) HeLa cells transformed with pssXA; (5) positive control containing 2 milliunits of MoMuLV reverse transcriptase; (6) negative control containing no protein extract. The arrow indicates the 150 bp amplification product. (Bk2p106)**

**B. Reverse transcriptase assays on stably transformed cell lines. Lanes: (1) clone A12, (2) B8, (3) B12, (4) D7, (5) positive control containing 2 mU of MoMuLV reverse transcriptase, (6) Control containing no extract. (Bk2p152)**

BEST AVAILABLE COPY

# Figure #5



**Figure 5: Amplification of single-stranded DNA from extracts of transformed cells.** RNA/ssDNA preparations were used as templates in PCR reactions using primers specific to the expected ssDNA product. Left panel, lanes 1-3: total RNA/ssDNA PCR template isolated from stably transformed colony A12 (1) used with no prior treatment (2) treated with S1 nuclease, (3) treated with RNase A. Lane (4) total RNA/ssDNA from a colony stably transformed with the pcDNA3.1Zeo+ vector alone. (Bk3p12a lanes5-8) Right panel, lanes 1-3,; total RNA/ssDNA PCR template isolated from stably transformed colony B12 (1) used with no prior treatment (2) treated with S1 nuclease, (3) treated with RNase A. Lane (4), total RNA/ssDNA from a colony stably transformed with the pcDNA3.1Zeo+ vector alone. Lane (5), positive control template, plasmid pTest.

BEST AVAILABLE COPY

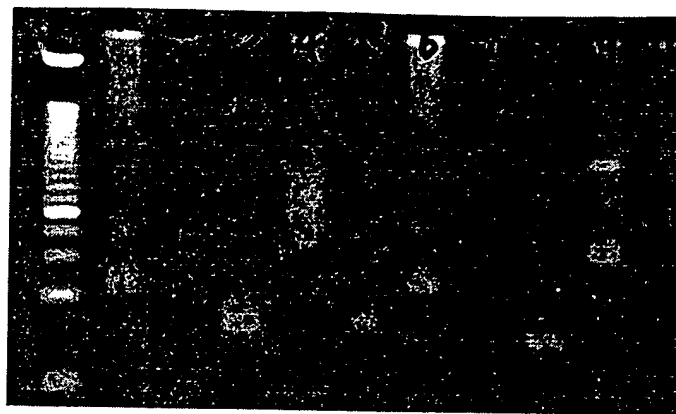
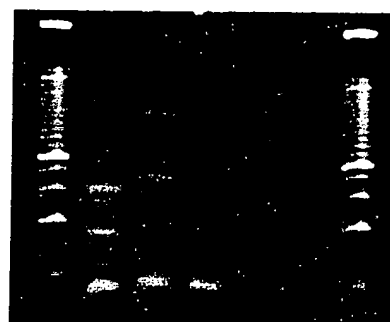


FIG. 6

1. 2. 3. 4. 5. 6. 7.



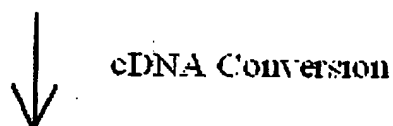
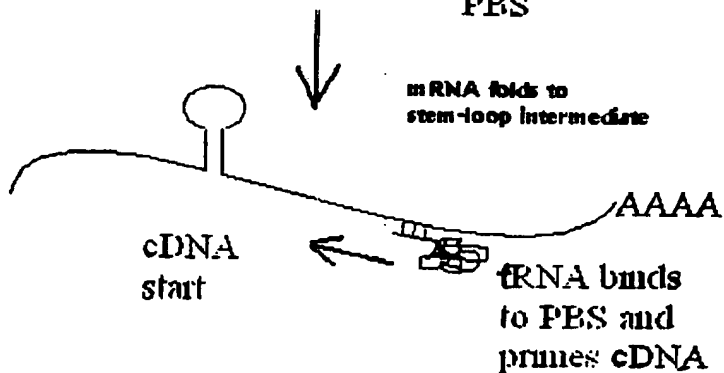
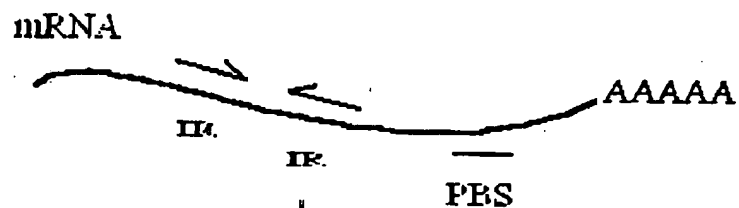
Extension loop-  
Stem juncture-

25 b.p.  
ladder

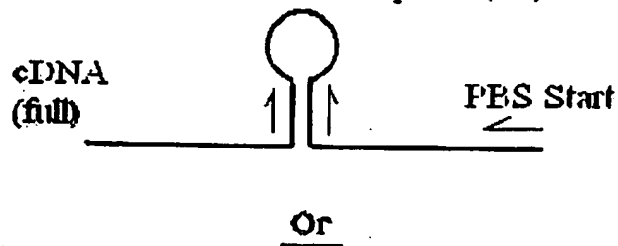
FIG. 7

0030782-004500

BEST AVAILABLE COPY



Stem-loop Structure from Inverted Repeats (IR)



cDNA Pre-mature Termination from Stem-loop



BEST AVAILABLE COPY